Shulla:



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1600

RAW SEQUENCE LISTING DATE: 03/10/2003
PATENT APPLICATION: US/08/984,178 TIME: 15:40:04

Input Set: N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Horvitz, H. Robert
      6
                             Yuan, Junying
      7
                             Shaham, Shai
      9
            (ii) TITLE OF INVENTION: CLONING, SEQUENCING AND CHARACTERIZATION
     10
                                      OF TWO CELL DEATH GENES AND USES THEREFOR
     12
           (iii) NUMBER OF SEQUENCES: 28
     14
            (iv) CORRESPONDENCE ADDRESS:
     15
                   (A) ADDRESSEE: Fish & Richardson P.C.
     16
                   (B) STREET: 225 Franklin Street
     17
                   (C) CITY: Boston
     18
                   (D) STATE: MA
     19
                   (E) COUNTRY: USA
     20
                   (F) ZIP: 02110-2804
             (V) COMPUTER READABLE FORM:
     22
     23
                   (A) MEDIUM TYPE: Floppy disk
                   (B) COMPUTER: IBM PC compatible
     24
     25
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     28
            (vi) CURRENT APPLICATION DATA:
C--> 29
                   (A) APPLICATION NUMBER: US/08/984,178
C--> 30
                   (B) FILING DATE: 03-Dec-1997
W - - > 35
                   (C) CLASSIFICATION: 424
           (vii) PRIOR APPLICATION DATA:
     40
     33
                   (A) APPLICATION NUMBER: US/08/287,669
     34
                   (B) FILING DATE: 09-AUG-1994
     37
                   (A) APPLICATION NUMBER: US 07/979,638
     38
                  (B) FILING DATE: 20-NOV-1992
     41
                  (A) APPLICATION NUMBER: US 07/897,788
     42
                  (B) FILING DATE: 12-JUN-1992
     44
          (viii) ATTORNEY/AGENT INFORMATION:
     45
                  (A) NAME: Clark, Paul T.
     46
                  (B) REGISTRATION NUMBER: 30,162
     47
                  (C) REFERENCE/DOCKET NUMBER: 01977/198005
     49
            (ix) TELECOMMUNICATION INFORMATION:
     50
                  (A) TELEPHONE: 617/542-5070
     51
                  (B) TELEFAX: 617/542-8906
                  (C) TELEX: 200154
     54 (2) INFORMATION FOR SEQ ID NO: 1:
     56
             (i) SEQUENCE CHARACTERISTICS:
     57
                  (A) LENGTH: 4407 base pairs
     58
                  (B) TYPE: nucleic acid
```

RAW SEQUENCE LISTING

(C) STRANDEDNESS: single

59

DATE: 03/10/2003 TIME: 15:40:04

PATENT APPLICATION: US/08/984,178

Input Set : N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

60 (D) TOPOLOGY: linear W--> 62 (ii) MOLECULE TYPE: DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 64 66 GAATTCGCGT CGAATCATTG TCTGTTCGGT ATCGATTCAG AAACCGAAAC TTGTGATCGA 60 68 TAACAAGTCA TTCAAACACG GCGAAGATGT CTATGCGTAT AACAGAATAT TTGGAGAAAT 120 70 GCTCGCAAAA CTCGAAATTG TCACCGATAA AATGATTAAC TTGAAGGGGC TAATGTAAGT 180 72 TATCTGATGT TTCTACAATT AAAAAAATTG TTTTTTTTTC CAAATTAATT TTCGAAGATT 240 300 76 TTAAATTATA ATTTTTCTGA TTGTTGTATG AAGCTACAAA ATGTACTGTT TTTGTATTTG 360 78 AATATTGTAT TACAGGGTTG GGATTCTCGG CAAATATCAG CGACAGTGGA AGATTTAGAA 420 80 GAAGGACGTG TGACAATCAC TAAGTCAAAG AGGGAAAGGA TAAAGGATTG TGATATTTCA 480 82 CTGTTTTACT CATTCGCTTT TTAAATAAGA ACTATATGCC GATTTGCCGA TATATTTTTG 540 84 TTTATTAGGC CTCTCACATT CCTGTACAAT GTTTCTACCA AATAAACTGC ATTTTTATCT 600 86 GAAAATTCGA ATTTATTTTT GTCTACTTTT TACTCGTTGC ATTCGAGATC AGCATATCTT 660 88 CCGGTCTATT TATATTCAAC GATTTTTATA AATTAGTACT CCTTCATGTT TAATTTCATT 720 90 TTATCTGTAA GCTTTACTGT ATTTTTTAA AATCTTTCTT GCTTCTATCT GATTATACAA 780 92 TGTTCTTTAC TCATTTTCAA GGTATTTTTA TGCCTCACAA TTTATGCACA TTTCGGGCTT 840 94 GGAGATTTAT CCTCTATATT ACATGCCTGT TTTTTTAAAG GATATAATGT TTAACAAATA 900 96 ATTTTTATC AATGCTATTG TATATTCTCC AGCTAACCGT TGTTTCGAAA ACATCACCTA 960 98 GCATTTTAAA ATTCACAAAA TCTTGCTTCC TTATAATCAA GAAGATTTTT CAGATGCTCT 1020 100 GCGAAATCGA ATGCCGCGCT TTGAGCACGG CACACACGAG GCTCATCCAC GACTTTGAAC 1080 102 CACGTGACGC ATTGACTTAT TTAGAAGGCA AAAACATTTT CACAGAAGAT CATTCTGAAC 1140 104 TTATCAGTAA AATGTCAACT CGCCTCGAGA GGATCGCCAA TTTTCTTCGA ATCTATCGAC 1200 106 GTCAAGCTTC TGAACTTGGA CCACTCATCG ACTTTTTCAA CTACAACAAT CAAAGTCACC 1260 108 TTGCTGATTT CCTCGAAGAC TACATCGATT TTGCGATAAA TGAGCCAGAT CTACTTCGTC 1320 110 CAGTAGTGAT TGCTCCACAA TTTTCCCGAC AAATGCTCGA TAGGAAACTA TTGCTTGGGA 1380 112 ATGTTCCAAA ACAAATGACA TGCTATATTC GAGAGTATCA CGTGGATCGA GTGATCAAAA 1440 114 AGCTCGACGA GATGTGTGAT TTAGGTGAGA AAACTGGAAG CTCTCGTGTT TATTATAATC 1500 116 TTGCTTAAAC TTCAGACTCC TTTTTTCTGT TTCTACACGG CCGAGCTGGA TCCGGAAAAT 1560 118 CAGTAATTGC ATCACAAGCT CTTTCGAAAT CTGACCAACT TATTGGAATG TGAGTGGTAT 1620 120 TATCTGAATC TACGGATCTT CATTCTATTA CAGAAATTAT GATTCAATCG TTTGGCTCAA 1680 122 AGATAGTGGA ACAGCTCCAA AATCTACATT CGATTTATTT ACGGATATTT TGCTGATGCT 1740 124 AAAGTGAGTG AATAGAGTGC ATGTAACATT CAGCATGATT TTGAAATTAT GAAAATTTGA 1800 126 CCTGGTTAGC TTTTAATTTG ATATTTCGTG ACGCTTGCAT GTTTTGTGTG TTTGAAGACG 1860 128 AGCCCGTGTT GTGAGCGACA CGGATGACTC GCATTCGATC ACCGACTTCA TTAACCGTGT 1920 130 TCTTTCAAGA AGCGAAGACG ATCTTCTCAA TTTCCCATCG GTGGAGCATG TCACGTCAGT 1980 132 TGTACTCAAA AGGATGGTAA GTTGCTTGCC GATTCTGGTA CAATATCTTA AATTATTGGT 2040 134 TTTTAGATCT GCAACGCACT CATTGATCGT CCAAATACTT TATTCGTATT TGATGACGTA 2100 136 GTTCAAGAAG AAACAATTCG TTGGGCTCAG GAGCTACGTC TTCGATGTCT TGTAACTACT 2160 138 CGTGACGTGG AAATATCAAA TGCTGCTTCT CAAACATGCG AATTCATTGA AGTGACATCA 2220 140 TTGGAAATCG ATGAATGTTA TGATTTTCTA GAAGCTTATG GAATGCCGAT GCCTGTTGGA 2280 142 GAAAAAGAAG AAGATGTGCT TAATAAAACA ATCGAACTAA GCAGTGGAAA TCCAGCAACG 2340 144 CTTATGATGT TTTTCAAGTC TTGTGAACCG AAAACATTTG AAAAGTGAGT GGGACATACC 2400 146 AATTTGAGAC TTTTAAAATA ATTTATTCTA CAATAAAAGT TAATCAAAAA GTTTCATAGC 2460 148 TGATTGTCTT TAAATTTTAC GAATTGAGGA TCAAAATCAA GAATTAGGAT CCTGGCACGA 2520 150 GAGAAAACTG TGTAGCTACC GTACCCGAGA GATTTTCTTG ATATTTGCCA TCGATTTAAT 2580 152 TTTTTAAGAA AATTATCGTT TTACATAATT GAACAAGAGA TACACGGTCT CGACCCGACG 2640 154 GAAATTTTT AAATGAAAGC GAGTATGAGC CTGTTTTCAT TATTTTTCGA TTTTCTCTTG 2700 RAW SEQUENCE LISTING DATE: 03/10/2003 PATENT APPLICATION: US/08/984,178 TIME: 15:40:04

Input Set : N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

156	TTGTTTCTTT	TTATT	TAAAG	CC	TTTT	TTTA	TGA	AACA	AGT	CTAA	AAAT	AT T	AAAA	ACTG	A	2760
158	ATAAAATATT	TAAAAA	TAAA	CA	AGTA	TAAA	AGA	AAAA	CAG	CAAG	GCTG	GA G	ACTA	CTGT	A	2820
160	CTTCTTAAAT	CCGCAT	TACTC	TT	TTTA:	TTTA	ATC	ATTT'	TCC	GGAA'	TGTC	GA A	ACGA.	AATA	A	2880
162	TACATTTTTA	GTCCAA	AATC	GC:	ragg:	TATA	TTC	TTAA	AAT	TATC	AAAC	AT T	TTGC	ATTC	A	2940
164	GAATGGCACA	GCTTAA	TAAC	AA	ATTG	GAAA	GTC	GAGG	ATT	AGTC	GGTG'	TT G	AATG'	TATC	A	3000
166	CCCCTTACTC	GTACAA	GTCA	CT	ÇGCA	ATGG	CTC	TTCA	AAG	ATGT	GTTG	AA Gʻ	TTTT	GTCA	G	3060
168	ATGAGGATCG	AAGTGC	CTCTT	GC:	TTTC	GCAG	TTG	rgat(GCC	TCCT	GGAG'	rt G	ATAT	ACCC	3	3120
170	TCAAGCTATG	GTCATO	STGTT	AT:	rcca(GTTG	ATA	TTTG'	TTC	AAAT	GAAG	AA G	AACA	ATTG	3	3180
172	ATGATGAAGT	TGCGGA	ATCGG	TT	GAAA	AGAC	TCAG	GCAA	GTA	TGAG'	TCTT(GA A	ATTT	GAAG	A	3240
174	TTTAAATTAA	CACTTA	TAAA	TTC	CAGA	CGTG	GAG	CTCT'	TCT	CAGT	GGAA	AA C	GAAT	GCCC	3	3300
176	TTTTGACATT	CAAAAT	TGAT	CA	TATT	ATCC	ATA	rgtt(CTT	GAAA	CACG!	rc g	TTGA'	TGCA	3	3360
178	AAACTATCGC	CGTATO	CTGA	AAA	ATGT	CTCA	ACT:	TTCA.	ATT	AAAT'	TTTA	AA T'	TTTC	AGAA'	\mathbf{r}	3420
180	GGAATCTCAA	TTCTCC	SAGCA	GC	GTCT:	ICTT	GAA	ATAG	GAA	ACAA'	TAAT	GT A	TCAG'	TACC	3	3480
182	GAGCGACATA	TACCAT	CACA	TT	rcca?	AAAA	TTC	CGTC	GTT	CATC	AGCC	AG T	GAGA'	TGTA:	r	3540
184	CCAAAAACTA	CAGAAG	SAAAC	TG:	rgat(CCGT	CCT	GAAG	ACT	TCCC	AAAG'	TT C	ATGC	AATTO	3	3600
186	CACCAGAAAT	TCTATO	SACTC	CC	ICAA	TAAA	TTTC	GCAT	GCT	GTTA	AAAC	CT A	TCGT	GTAC	A	3660
188	ATATTGCCTG	TATATI	rcccc	TC	GAAA!	TACG	TTTZ	ATAC'	$\mathbf{T}\mathbf{T}$	TTCG	CACG	AG T	TTTC	TCAT:	Г	3720
190	TTTTCATTTG	TACTTO	TTTT	AT	TTCT(CTCC	AAA	ATTT	CAG	ATCT	ATCC	CA A	ATGT'	rctt2	A	3780
192	AATTTAATGT	TTTCTA	CAGA	TAG	CTCA	ACAC	ATC	rtgt'	TTC	ATCT	CATC	CT TO	GCTT'	TTTT:	ľ	3840
194	TTTCAAATAT	ATTCAG	STTTC	TT	TAT	TTAA	TTA	ATTA	ATC	GAAT'	TAAT	AC A	TTCA	CGTA	A	3900
196	AGAATTTCGT	GGACTA	TATTA	TT	ratc(GCAT	CCA	AATG	TTA	TATT	CCCT	AT TO	GTTC	GAAA(2	3960
198	TTCCAAATTG	ATCATI	ATTT	AAG	CACG	CCTC	ATT	AAAT'	TGA	AAGT	CGTA	CT T	TTAG'	rctc(3	4020
200	AACATGAAGT	AAGTTA	TTTT	CTC	GTGT:	ICTA	AAT	rcaa.	AGT	GCAT'	TCCA2	AA AA	GGAC	ATTT(3	4080
202	ATGAGTTTTC	ACGAAA	ACCG	TAA	ATTT	TTAC	AAT	rtcc'	TTT	CAGT'	rttg:	AA G	ATGT'	TCGA:	r	4140
204	TTCTTTCCTC	TGTTGG	CGTC	AT:	racta	ACAT	TTG	CTTTC	GCT	GCTT	CACT	TT A	TCGA	GATT(3	4200
206	TTGCCATCAA TGGAGTTCCA TCTAGACCGA TAGCAGTCTT CATATCATTA TCCCTGTATA													A	4260	
208	TTGTACTGTT TCAGTATTTT AACTTATCGA TTACGTACTA TATTCAGTGG TTCACTGTTT													r	4320	
210	210 TCGGTCAATG GGTGACACGT GCTCGACGAN NAATTTTCAA CGAACGCAAT CTCCTAGTCA													A	4380	
212	212 CTTATCAACC AAGAGCCCTC ACCCATG														4407	
214	(2) INFORMA	ATION F	FOR S	EQ I	ID NO	0: 2:	:									
216	(i) SE	EQUENCE	CHA	RAC	reris	STICS	5:									
217	((A) LEN	IGTH:	549	am:	ino a	acids	5								
218	((B) TYP	E: a	mino	o ac	id									•	
219	· ·															
220	((D) TOP	OLOG	Y:]	linea	ar										
222	(ii) MO	LECULE	TYP	E: 1	prote	ein										
224	(xi) SE															
226	Met Le	eu Cys	Glu	Ile	Glu	Cys	Arg	Ala	Leu	Ser	Thr	Ala	His	Thr	Arg	
227	1			5					10					15		
229	Leu Il	le His	Asp	Phe	Glu	Pro	Arg	Asp	Ala	Leu	Thr	Tyr	Leu	Glu	Gly	
230			20					25					30			
232	Lys As	sn Ile	Phe	Thr	Glu	Asp	His	Ser	Glu	Leu	Ile	Ser	Lys	Met	Ser	
233		35					40					45				
235	Thr Ar	g Leu	Glu	Arg	Ile	Ala	Asn	Phe	Leu	Arg	Ile	Tyr	Arg	Arg	Gln	
236	50)				55	•				60					
238	Ala Se	er Glu	Leu	Gly	${\tt Pro}$	Leu	Ile	Asp	Phe	Phe	Asn	Tyr	Asn	Asn	Gln	
239	65				70					75					80	
241	Ser Hi	s Leu	Ala	Asp	Phe	Leu	Glu	Asp	_	Ile	Asp	Phe	Ala	Ile	Asn	
242				85					90					95		

RAW SEQUENCE LISTING DATE: 03/10/2003 PATENT APPLICATION: US/08/984,178 TIME: 15:40:04

Input Set : N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

244 245	Glu	Pro	Asp	Leu 100	Leu	Arg	Pro	Val	Val 105	Ile	Ala	Pro	Gln	Phe 110	Ser	Arg
247 248	Gln	Met	Leu 115	Asp	Arg	Lys	Leu	Leu 120	Leu	Gly	Asn		Pro 125	Lys	Gln	Met
250 251	Thr	Cys 130	Tyr	Ile	Arg	Glu	Tyr 135	His	Val	Asp	Arg	Val 140	Ile	Lys	Lys	Leu
253 254	Asp 145	Glu	Met	Cys	Asp	Leu 150	Asp	Ser	Phe	Phe	Leu 155	Phe	Leu	His	Gly	Arg 160
256 257	Ala	Gly	Ser	Gly	Lys 165	Ser	Val	Ile	Ala	Ser 170	Gln	Ala	Leu	Ser	Lys 175	Ser
259 260	Asp	Gln	Leu	Ile 180		Ile	Asn	Tyr	Asp 185		Ile	Val	Trp	Leu 190	Lys	Asp
262 263	Ser	Gly	Thr 195		Pro	Lys	Ser	Thr 200		Asp	Leu	Phe	Thr 205		Ile	Leu
265 266	Leu	Met 210		Lys	Ser	Glu	Asp 215		Leu	Leu	Asn	Phe 220	-	Ser	Val	Glu
268 269	His 225		Thr	Ser	Val	Val 230		Lys	Arg	Met	Ile 235		Asn	Ala	Leu	Ile 240
271 272		Arg	Pro	Asn	Thr 245		Phe	Val	Phe	Asp 250		Val	Val	Gln	Glu 255	
274 275	Thr	Ile	Arg	Trp 260		Gln	Glu	Leu	Arg 265		Arg	Cys	Leu	Val 270	Thr	Thr
277 278	Arg	Asp	Val 275		Ile	Ser	Asn	Ala 280		Ser	Gln	Thr	Cys 285		Phe	Ile
280 281	Glu	Val 290		Ser	Leu	Glu	Ile 295			Cys	Tyr	Asp		Leu	Glu	Ala
·283 284	Tyr 305		Met	Pro	Met	Pro 310	_	Gly	Glu	Lys	Glu 315		Asp	Val	Leu	Asn 320
286 287		Thr	Ile	Glu	Leu 325		Ser	Gly	Asn	Pro 330		Thr	Leu	Met	Met 335	
289 290	Phe	Lys	Ser	Cys 340		Pro	Lys	Thr	Phe 345		Lys	Met	Ala	Gln 350	Leu	Asn
292 293	Asn	Lys	Leu 355		Ser	Arg	Gly	Leu 360		Gly	Val	Glu	Cys 365		Thr	Pro
295 296	Tyr	Ser 370		Lys	Ser	Leu	Ala 375		Ala	Leu	Gln	Arg 380		Val	Glu	Val
298 299	Leu 385		Asp	Glu	Asp	Arg		Ala	Leu	Ala	Phe		Val	Val	Met	Pro 400
301 302		Gly		Asp		Pro		Lys		_	Ser	Cys			Pro 415	Val
304	Asp	Ile		Ser					Gln			Asp		Val	Ala	
305 307	Arg	Leu		420 Arg	Leu	Ser	Lys		425 Gly	Ala	Leu	Leu		430 Gly	Lys	Arg
308 310	Met		435 Val	Leu	Thr	Phe		440 Ile	Asp	His	Ile		445 His	Met	Phe	Leu
311 313		450 His	Val	Val	Asp		455 Gln	Thr	Ile	Ala		460 Gly	Ile	Ser	Ile	
314 316	465 Glu	Gln	Arg	Leu	Leu	470 Glu	Ile	Gly	Asn	Asn	475 Asn	Val	Ser	Val	Pro	480 Glu

RAW SEQUENCE LISTING DATE: 03/10/2003 PATENT APPLICATION: US/08/984,178 TIME: 15:40:04

Input Set: N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

485

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Arg His Ile Pro Ser His Phe Gln Lys Phe Arg Arg Ser Ser Ala Ser
319
                                                                510
320
                                          505
         Glu Met Tyr Pro Lys Thr Thr Glu Glu Thr Val Ile Arg Pro Glu Asp
322
323
                 515
                                      520
                                                           525
         Phe Pro Lys Phe Met Gln Leu His Gln Lys Phe Tyr Asp Ser Leu Lys
325
326
                                  535
328
         Asn Phe Ala Cys Cys
329
         545
331 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
333
334
              (A) LENGTH: 12 amino acids
335
              (B) TYPE: amino acid
              (C) STRANDEDNESS: Not Relevant
336
              (D) TOPOLOGY: linear
337
339
        (ii) MOLECULE TYPE: protein
341
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
343
         Asp Gln Asp Lys Ser Gly Phe Ile Glu Glu Asp Glu
344
346 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
349
              (A) LENGTH: 12 amino acids
350
              (B) TYPE: amino acid
351
              (C) STRANDEDNESS: Not Relevant
352
              (D) TOPOLOGY: linear
354
        (ii) MOLECULE TYPE: protein
356
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
358
       Asp Gln Asp Lys Asp Asp Phe Ile Gly Glu Asp Glu
359
         1
361 (2) INFORMATION FOR SEQ ID NO: 5:
363
         (i) SEQUENCE CHARACTERISTICS:
364
              (A) LENGTH: 12 amino acids
              (B) TYPE: amino acid
365
366
              (C) STRANDEDNESS: Not Relevant
367
              (D) TOPOLOGY: linear
369
        (ii) MOLECULE TYPE: protein
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
371
373
         Asp Ser Asp Gly Asp His Lys Ile Gly Val Asp Glu
374
376 (2) INFORMATION FOR SEQ ID NO: 6:
378
         (i) SEQUENCE CHARACTERISTICS:
379
              (A) LENGTH: 12 amino acids
380
              (B) TYPE: amino acid
381
              (C) STRANDEDNESS: Not Relevant
382
              (D) TOPOLOGY: linear
384
        (ii) MOLECULE TYPE: protein
386
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
         Asp Ile Asn Lys Asp Asp Val Val Ser Trp Glu Glu
388
389
                         5
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317

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/10/2003

PATENT APPLICATION: US/08/984,178

TIME: 15:40:05

Input Set : N:\Crf3\RULE60\08984178.RAW.txt Output Set: N:\CRF4\03102003\H984178.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 4350,4351

Seq#:20; Xaa Pos.94,95,96,120,179,318

Seq#:21; Xaa Pos.310

VERIFICATION SUMMARY

DATE: 03/10/2003 TIME: 15:40:05

PATENT APPLICATION: US/08/984,178

Input Set : N:\Crf3\RULE60\08984178.RAW.txt
Output Set: N:\CRF4\03102003\H984178.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi) L:62 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1 L:457 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=11 L:564 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18 L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:80 M:341 Repeated in SeqNo=20 L:1109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:304 L:1150 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22 L:1164 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23 L:1178 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24 L:1192 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25 L:1206 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26 L:1220 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27 L:1234 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28